

Docket No.: ST03004USU (172-US-U1)

Serial No.: 10/633,488

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

APPLICANT: Geoffrey F. Cox

DOCKET NO.: ST03004USU (172-US-U1)

SERIAL NO.: 10/633,488

GROUP ART UNIT: 3663

DATE FILED: August 1, 2003

EXAMINER: Mancho, Ronnie M.

CONFIRMATION NO.: 5142

TITLE: ALTITUDE AIDING IN A SATELLITE POSITIONING SYSTEM

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on September 26, 2005.

September 26, 2005

Bonnie S. Sheridan
Bonnie S. Sheridan

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

INFORMATION DISCLOSURE STATEMENT

Sir:

In accordance with 37 C.F.R. §§ 1.56, 1.97, and 1.98, applicants' undersigned attorney brings to the attention of the Patent and Trademark Office the documents listed on the attached Form PTO-1449.

This information is being submitted under 37 CFR §§ 1.97(c) subsequent to the later of three months after the filing date of the present application or the mailing of the first Office Action on the merits, but before the mailing of a Final Action or the Notice of Allowance. A fee as prescribed by 37 CFR § 1.97(c)(2) and 1.17(p) accompanies this transmittal.

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This submission is not to be construed as a representation that a search has been made or that a reference is relevant merely because cited. The filing of this information disclosure statement shall not be construed as an admission against interest in any manner.

Copies of Form PTO-1449, as well as any non-patent documents and foreign patent and foreign patent publications cited as references are enclosed with this transmittal. An Applicant has highlighted sections of some of the submitted material in order to highlight to the Examiner what the applicant believes to be particularly relevant. Assignee asks the Examiner to carefully read all of the submitted material, as there may be other non-highlighted sections that are relevant to the broad concepts of the present invention or to specific claim elements.

Although it is believed that the appropriate fees are submitted with this transmittal, the Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment, to our Deposit Account No. 50-2542.

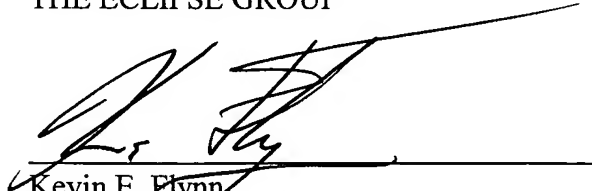
Early passage of the subject application to issue is earnestly solicited.

Respectfully submitted,

THE ECLIPSE GROUP

Date: September 26, 2005

By:



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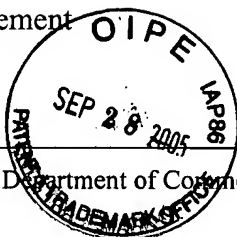


CERTIFICATE OF MAILING UNDER 37 C.F.R. § 1.8

Atty. Docket No.: ST03004USU (172-US-U1)
Applicant: Geoffrey F. Cox
Title: ALTITUDE AIDING IN A SATELLITE POSITIONING SYSTEM
Date of Deposit: September 26, 2005
Serial No.: 10/633,488
Filing Date: August 1, 2003
Type of Documents: Information Disclosure Statement (2 pgs);
Form PTO-1449 (2 pgs);
Credit Card Payment Form (PTO-2038 – 1 pg);
Copies of non-patent documents cited (13 documents); and
Return Receipt Postcard

I hereby certify that the documents identified above are being deposited with the United States Postal Service with sufficient postage as first class mail in an envelope addressed to the Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on September 26, 2005.

Bonnie S. Sheridan
Bonnie S. Sheridan



FORM PTO-1449 U.S. Department of Commerce Patent and Trademark Office List of Documents Cited by Applicant				Attorney Docket No.: ST03004USU (172-US-U1)		Serial No.: 10/633,488	
				Applicant(s): Geoffrey F. Cox			
				Filing Date: August 1, 2003		Group: 3663	
U.S. PATENT DOCUMENTS							
Examiner Initials	No.	Document Number	Date	Name	Class	Subclass	Filing date if Appropriate
	01	6,429,814 B1	08/06/2002	Van Diggelen et al.	342	357.13	
FOREIGN PATENT DOCUMENTS							
Examiner Initials	No.	Document Number	Date	Name of Patentee or Applicant	Country	Translation Yes No	
OTHER DOCUMENTS (Including Author, Title, Date, Pertinent Pages, Etc.)							
Examiner Initials	No.	Full Information Of Document					
	02	Van Nee, D. J. R., Coenen, A. J. R. M., "New Fast GPS Code-Acquisition Using FFT," <i>Electronic Letters</i> , Vol. 27, Number 2, pp. 158-160 (1991).					
	03	Van Nee, D. J. R., Coenen, A. J. R. M., "Novel Fast GPS/GLONASS Code Acquisition Technique Using Low Update Rate FFT," <i>Electronic Letters</i> , Vol. 28, Number 9, pp. 863-865 (1992).					
	04	MacGougan, G., Lachapelle, G., Klukas, R. Siu, K. Department of Geomatics Engineering Garin, L., Shewfelt, J., Cox G., SiRF Technology Inc., "Degraded GPS Signal Measurements With A Stand-Alone High Sensitivity Receiver," <i>ION National Technical Meeting</i> , San Diego, (28-30 January 2002).					

05	Garin, L. J., M. Chansarkar, S. Miocinovic, C. Norman, and D. Hilgenberg (1999) "Wireless Assisted GPS-SiRF Architecture and Field Test Results," <i>Proceedings of the Institute of Navigation ION GPS-99</i> , pp. 489-497 (September 14-17, 1999, Nashville, Tennessee).
06	Moeglein, M. and N. Krasner (1998), "An Introduction to SnapTrack TM Server-Aided GPS Technology," <i>Proceedings of the Institute of Navigation ION GPS-98</i> , pp. 333-342 (September 15-18, 1998, Nashville, Tennessee).
07	Stephen, J., and G. Lachapelle, "Development and Testing of a GPS-Augmented Multi-Sensor Vehicle Navigation System," <i>The Journal of Navigation</i> , Royal Institute of Navigation, Vol. 54, pp. 297-319 (2001).
08	"National Imagery And Mapping Agency (NIMA) Performance Specification Digital Terrain Elevation Data (DTED)," MIL-PRF-89020A 19 April 1996. Superseding MIL-D-89020. Defense Mapping Agency, 8613 Lee Highway, Fairfax VA 22031-2137 (1996).
09	Excerpts from http://earth-info.nga.mil website provided by National Technology Alliance (NTA) and U.S. National Geospatial-Intelligence Agency (NGA), "WGS 1984 Earth Gravitational Model Metadata," including Abstract at § 1.2.1 as reproduced at http://earth-info.nga.mil/GandG/wgs84/gravitymod/wgs84_180/wgs84-md.htm on 07/25/2005.
10	Excerpts from http://earth-info.nga.mil website provided by National Technology Alliance (NTA) and U.S. National Geospatial-Intelligence Agency (NGA), "NGA/NASA EGM96, N=M=360 Earth Gravitational Model: WGS 84 EGM96 15-Minute Geoid Height Fiile and Coefficient File," as described on http://earth-info.nga.mil/GandG/wgs84/gravitymod/egm96/egm96.htm on 07/25/2005 believed to describe a 1996 model.
11	"The Land Processes (LP) Distributed Active Archive Center (DAAC) Online GTOPO30 Documentation," U.S. Geological Survey, EROS Data Center, 47914 252nd Street, Sioux Falls, SD 57198-0001 (1996) Web: http://edcdaac.usgs.gov
12	Golub, G. H. and Van Loan, C. F., "Matrix Computations, 2 nd Edition," The John Hopkins University Press, Baltimore, problem p6.2-4, pp. 218-220 (1989).
13	Kaplan, E. D. (Ed.) "Understanding GPS Principles and Applications," Artech House, Boston, section 2.2.3.1, pp. 25-27 (1996).
14	Schwarz, K. P. and Krynski, J., "Fundamentals of Geodesy," Lecture Notes ENSU 421, Dept. of Geomatics Engineering, University of Calgary, Calgary, AB, CAN., Section 3.2, p. 26 (1994).

EXAMINER _____ DATE CONSIDERED _____

*Examiner Initial if reference considered, whether or not citation is in conformance with MPEP 609; draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.